

ABSTRACT

A fuel fractionation method which can suitably control a state of a fuel at a time of fractionating the fuel in an internal combustion engine, which ~~comprises~~ includes the steps of applying an operation for promoting a fractionation of a fuel of an engine [[(1)]] to a fractionation passage [[(21)]] while making the fuel flow to the fractionation passage [[(21)]]], thereby fractionating the fuel into a gas phase fuel and a liquid phase fuel within the fractionation passage [[(21)]]], conducting the fractionated gas phase fuel and the fractionated liquid phase fuel to a branch point [[(21c)]] of the fractionation passage [[(21)]]], and separating the gas phase fuel and the liquid phase fuel to a gas phase passage [[(23)]] and a liquid phase passage [[(22)]]], respectively due to gravity.